

Pioneiro de Libra (conversion)

Ship type	FPSO
Shipowner	OOG-TK Libra GmbH & Co KG
Shipyard	Sembcorp Marine Jurong Shipyard Pte Ltd.



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Main Dimensions

Dwt	120,367 t
GT	86,873
Capacity	650,000 bbl
LOA	310.15 m
Beam	50.5 m
Draught	16.019 m

Project type	Ship status	Design scope	Delivery year
Conversion	Delivered	Concept, Basic	2017

Scope of Work for the Shipowner

- Bid support for Libra field tendering
- The target for engineering was to verify the feasibility of the conversion and provide information for capital expenditure analysis
- Basic set of documentation was prepared including general arrangement, conversion specification and stability check

Scope of Work for the Shipyard

- Basic engineering of the hull and utilities
- Scope included structural design; strength and FEA calculations; accommodation and HVAC design; P&IDs for marine and utility systems; electrical and instrumentation for the hull; procurement support for main equipment; and HSE considerations
- Deltamarin also provided interface management

Project Features

- Storage capacity 650,000bbl, production rate 50,000 bbl/d
 - A very complex fatigue life analysis was conducted due to the vessel's long service history in North Sea conditions and its relatively high age
 - The vessel will serve the Libra pre-salt field in the ultra-deepwater section of Brazil's Santos Basin as an early well-testing unit
 - The project was a fast track project with a delivery time of only 23 months
 - The work was completed in 2017
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Additional Information

IMO number 9063067